Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-530 (Canceled).

531. (New) A method of treating an angiogenic disease or condition in an animal comprising administering to the animal an effective amount of a peptide having the formula:

P1 - P2,

wherein:

P₁ is:

Xaa₁ Xaa₂ His: or

Xaa₁ Xaa₂ His Xaa₃;

 P_2 is $(Xaa_4)_n$;

Xaa₁ is glycine, alanine, valine, leucine, isoleucine, serine, threonine, aspartic acid, asparagine, glutamic acid, glutamine, lysine, hydroxylysine, histidine, arginine, ornithine, phenylalanine, tyrosine, tryptophan, cysteine, methionine, or α-hydroxymethylserine;

Xaa₂ is glycine, alanine, β -alanine, valine, leucine, isoleucine, serine, threonine, aspartic acid, asparagine, glutamic acid, glutamine, lysine, hydroxylysine, histidine, arginine, ornithine, phenylalanine, tyrosine, tryptophan, cysteine, methionine, or α -hydroxymethylserine;

Xaa₃ is glycine, alanine, valine, lysine, arginine, ornithine, aspartic acid, glutamic acid, asparagine, glutamine or tryptophan;

Xaa4 is any amino acid; and

n is 0-100;

or a physiologically-acceptable salt thereof.

532. (New) The method of Claim 531 wherein:

Xaa, is glycine, alanine, valine, leucine, isoleucine, serine, threonine, aspartic acid, glutamic acid, lysine, hydroxylysine, histidine, arginine, or α -hydroxymethylserine, and

Xaa₂ is glycine, alanine, valine, leucine, isoleucine, threonine, serine, asparagine, glutamine, cysteine, methionine, lysine, hydroxylysine, histidine, arginine, or α-hydroxymethylserine.

- 533. (New) The method of Claim 531 wherein Xaa₁ is aspartic acid, glutamic acid, arginine, threonine or α-hydroxymethylserine.
- 534. (New) The method of Claim 531 wherein Xaa₂ is glycine, alanine, valine, leucine, isoleucine, threonine, serine, asparagine, methionine, histidine or α-hydroxymethylserine.
 - 535. (New) The method of Claim 531 wherein Xaa, is lysine.
 - 536. (New) The method of Claim 531 wherein:

Xaa₁ is aspartic acid, glutamic acid, arginine, lysine, threonine, serine or α -hydroxymethylserine,

Xaa₂ is glycine, alanine, valine, leucine, isoleucine, threonine, serine, asparagine, methionine, histidine or α-hydroxymethylserine, and

Xaa₃, when present, is lysine.

- 537. (New) The method of Claim 536 wherein Xaa₁ is aspartic acid or glutamic acid and Xaa₂ is glycine, alanine, valine, leucine, isoleucine, threonine, serine or α-hydroxymethylserine.
- 538. (New) The method of Claim 537 wherein Xaa₂ is glycine, alanine, valine, leucine or isoleucine.
 - 539. (New) The method of Claim 538 wherein P, is Asp Ala His or Asp Ala His Lys.
 - 540. (New) The method of Claim 539 wherein P₁ is Asp Ala His Lys.
- 541. (New) The method of Claim 536 wherein Xaa₁ is arginine, lysine, threonine, serine or α-hydroxymethylserine, and Xaa₂ is glycine, alanine, valine, leucine, isoleucine, threonine, serine or α-hydroxymethylserine.
- 542. (New) The method of Claim 541 wherein P₁ is Thr Leu His, HMS His or Arg
 - 543. (New) The method of Claim 531 wherein n is 0-10.
 - 544. (New) The method of Claim 543 wherein n is 0-5.
 - 545. (New) The method of Claim 544 wherein n is 0.
 - 546. (New) The method of Claim 531 wherein P₂ comprises a metal-binding sequence.

547. (New) The method of Claim 546 wherein P₂ comprises one of the following sequences:

(Xaa₄)_m Xaa₃ His Xaa₂ Xaa₅,

(Xaa₄)_m His Xaa₂ Xaa₅,

(Xaa₄)_m Xaa₅ Xaa₂ His Xaa₃, or

(Xaa₄)_m Xaa₅ Xaa₂ His,

wherein Xaa₅ is an amino acid having a free side-chain -NH₂ and m is 0-5.

548. (New) The method of Claim 547 wherein Xaa₅ is Orn or Lys.

549. (New) The method of Claim 546 wherein P_2 comprises one of the following sequences:

[(Xaa₄), Xaa₅Xaa₂HisXaa₃],

[(Xaa₄),,Xaa₅Xaa₂His],

[(Xaa₄)_mXaa₅Xaa₂HisXaa₃(Xaa₄)_mXaa₅Xaa₂His]_r, or

 $[(Xaa_4)_m Xaa_5 Xaa_2 His(Xaa_4)_m Xaa_5 Xaa_2 His Xaa_3]_r$

wherein Xaa₅ is an amino acid having a free side-chain -NH₂, m is 0-5 and r is 2-100.

550. (New) The method of Claim 546 wherein P₂ comprises a sequence which binds Cu(1).

551. (New) The method of Claim 550 wherein P₂ comprises one of the following sequences:

Met Xaa, Met,

Met Xaa₄ Xaa₄ Met,

Cys Cys,

Cys Xaa, Cys,

Cys Xaa4 Xaa4 Cys,

Met Xaa, Cys Xaa, Xaa, Cys,

Gly Met Xaa4 Cys Xaa4 Xaa4 Cys [SEQ ID NO:7],

Gly Met Thr Cys Xaa, Xaa, Cys [SEQ ID NO:8],

Gly Met Thr Cys Ala Asn Cys [SEQ ID NO:9], or

y-Glu Cys Gly.

552. (New) The method of Claim 551 wherein P₂ is Gly Met Thr Cys Ala Asn Cys [SEQ ID NO:9].

- 553. (New) The method of Claim 531 wherein P₂ comprises a sequence which enhances the ability of the peptide to penetrate cell membranes, reach target tissues, or both.
 - 554. (New) The method of Claim 553 wherein P₂ is hydrophobic or an arginine oligomer.
- 555. (New) The method of Claim 531 wherein at least one of the amino acids of P_1 other than β -alanine, when present, is a D-amino acid.
- 556. (New) The method of Claim 556 wherein Xaa, is a D-amino acid, His is a D-amino acid, or both Xaa, and His are D-amino acids.
- 557. (New) The method of Claim 557 wherein all of the amino acids of P_1 other than β -alanine, when present, are D-amino acids.
- 558. (New) The method of Claim 555 wherein at least 50% of the amino acids of P₂ are D-amino acids.
- 559. (New) The method of Claim 531 wherein at least one amino acid of P_1 , at least one amino acid of P_2 , or at least one amino acid of P_1 and at least one amino acid of P_2 is substituted with (a) a substituent that increases the lipophilicity of the peptide without altering the ability of P_1 to bind metal ions, (b) a substituent that protects the peptide from proteolytic enzymes without altering the ability of P_1 to bind metal ions, or (c) a substituent which is a non-peptide, metal-binding functional group that improves the ability of the peptide to bind metal ions.
- 560. (New) The method of Claim 559 wherein the terminal -COOH of P_1 - P_2 is substituted to produce -COR₂, wherein R_2 is -NH₂, -NHR₁, -N(R_1)₂, -OR₁, or -R₁, wherein R_1 is an alkyl, aryl or heteroaryl.
- 561. (New) The method of Claim 559 wherein n is 0 and P₁ has one of the following formulas:

$$\begin{array}{c} \mathsf{CH_2CO_2H} \\ \mathsf{H_2N-CH} \\ \mathsf{CO} \\ \mathsf{NH} \\ \mathsf{H_3C-CH} \\ \mathsf{CO} \\ \mathsf{N} \\ \mathsf{H} \\ \mathsf{H_2C-CH} \\ \mathsf{CO} \\ \mathsf{NH} \\ \mathsf{H_2C-CH} \\ \mathsf{COR_2} \\ \end{array}$$

wherein:

R₁ is an alkyl, aryl, or heteroaryl;

 R_2 is -NH₂, -NHR₁, -N(R_1)₂, -OR₁, or -R₁; and

R₃ is H, a non-peptide, metal-binding functional group or the two R₃ groups together form a non-peptide, metal-binding functional group.

- 562. (New) The method of Claim 561 wherein R₂ is -NH₂.
- 563. (New) The method of Claim 531 wherein the method further comprises administering an effective amount of another metal-binding compound in combination with the peptide.
 - 564. (New) The method of Claim 563 wherein the metal-binding compound binds iron.
- 565. (New) The method of Claim 564 wherein the iron-binding compound is deferoxamine mesylate.
 - 566. (New) The method of Claim 563 wherein the metal-binding compound binds Cu(I).
 - 567. (New) The method of Claim 566 wherein the Cu(I)-binding compound is a peptide.
- 568. (New) The method of Claim 567 wherein the Cu(I)-binding peptide comprises one of the following sequences:

Met Xaa, Met,

Met Xaa₄ Xaa₄ Met,

Cys Cys

Cys Xaa, Cys,

Cys Xaa4 Xaa4 Cys,

Met Xaa, Cys Xaa, Xaa, Cys,

Gly Met Xaa₄ Cys Xaa₄ Xaa₄ Cys [SEQ ID NO:7],

Gly Met Thr Cys Xaa, Xaa, Cys [SEQ ID NO:8],

Gly Met Thr Cys Ala Asn Cys [SEQ ID NO:9], or

γ-Glu Cys Gly,

wherein Xaa, is any amino acid.

569. (New) The method of any one of Claims 531-568 wherein the angiogenic disease or condition is a neoplastic disease, a connective tissue disorder, psoriasis, an ocular angiogenic disease, a cardiovascular disease, a cerebral vascular disease, hemophiliac joints, an immune disorder, a benign tumor, hypertrophy, endometriosis, polyposis, or obesity.

- 570. (New) The method of Claim 569 wherein the angiogenic disease or condition is a neoplastic disease.
 - 571. (New) The method of Claim 570 wherein the neoplastic disease is a tumor.
- 572. (New) The method of Claim 571 wherein the tumor is located in the bladder, brain, breast, kidney, liver, pancreas, lung, cervix, ovary, prostate, stomach, intestines, colon, rectum, or uterus.
 - .573. (New) The method of Claim 570 wherein the neoplastic disease is tumor metastasis.